

# Streamlining Rail Operations



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION





### Railroad Issues

- Locomotive Horns & Noise
- Faster Trains & More Trains over At-Grade Crossings
- Blocked Crossings
- Railroads Have Less Flexibility With Side Tracks and Yards





## NCDOT's Approach

- Crossing Consolidation & Improvement
- Study Train and Highway Operations
- Improve Efficiency of Train
   Switching & Increase Velocity
- Minor Rail Line and Switching Relocations/Signal Improvements





### **Rail Relocation Benefits**

- Safety
  - Less train blockages improves crossing and public safety.
  - Hazardous materials stay on the move.
- Freight Operations
  - More efficient freight switching (faster, less moves).
  - Better freight service options may result in more economic development in area.



Photo by Rick Tufts

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION







### **Rail Relocation Benefits**

- Unit Train Movements
  - Allows longer military and other unit trains to be moved faster.
- Environment
  - Decreases congestion and idling of trains and vehicles.
- Public Cost
  - Railroad solution less costly than highway solution



Photo by Don Stewart





# Rail Relocation Projects in North Carolina



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION



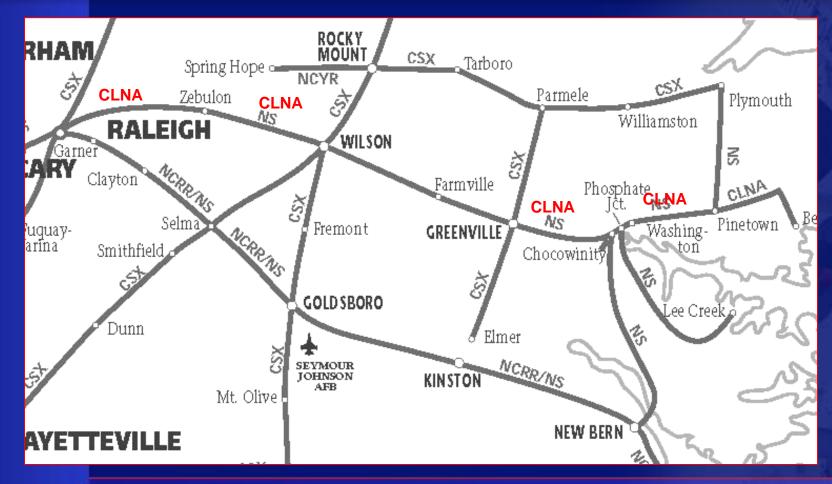


### Greenville

- Carolina Coastal Railway & NS Operations
- CSX Operations
- Investigation/negotiation of new wye connection in Greenville
- Investigation of relocating CSXT Switching Yard in Greenville/repair track & office building CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION
- Review improvements on CLNA in

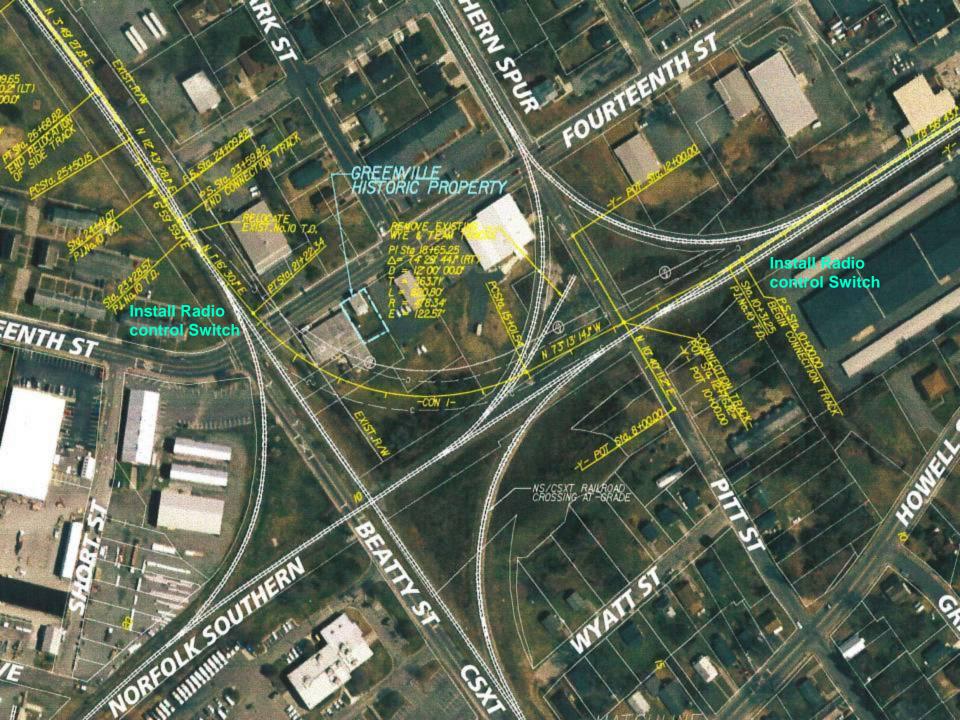


# CLNA Leased NS Line Pinetown to Raleigh



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION







# Existing CSX Yard & Arlington Blvd



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION





# Proposed CSX Yard & Arlington Blvd



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION





### **New CSX Yard Location**



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION





### **Project Cost Estimate**

CSX Connection track \$ 2,735,000 CSX Yard Tracks \$ 4,660,000 CLNA Cross Tie Project \$ 630,000 Modify Old Yard Tracks \$ 156,500

**Totals** 

\$8,181,500



# **Greenville Connector Project**

Budget Estimate Final Cost \$2,750,000 \$1,760,000

NCDOT 75%
CSX 25%
City of Greenville In-kind and ROW
Completed 2010



## **CSX Yard Relocation Project**

CSX (25%)

FRA (14%)

NCDOT (61%)

\$1,701,000

\$967,375

\$4,135,625

Totals (100%)

\$6,804,000



# **CSX Yard Relocation Project**

EA/FONST Complete
FRA Cooperative Agreement Signed
Permitting in Progress
Construction Spring 2012

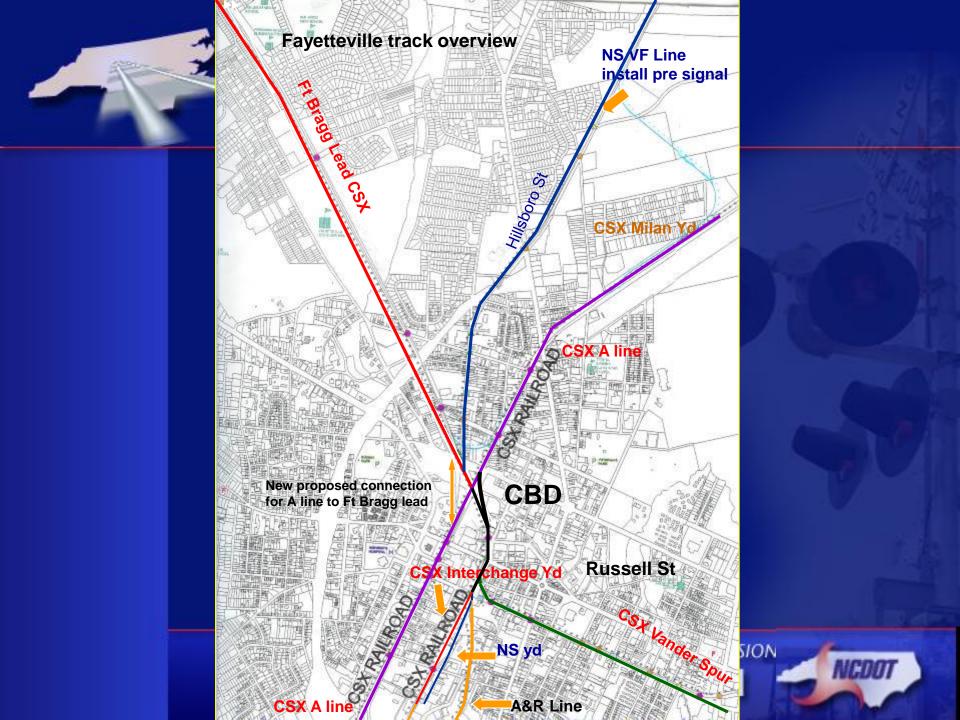


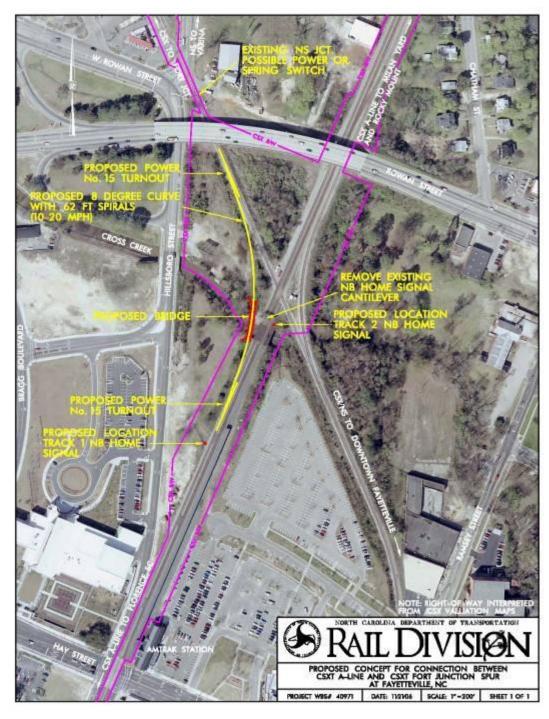


### **Fayetteville**

- \$9,460,000 Federal Earmark (amount includes 20% Local Match).
- CSX Operations
- Norfolk Southern/ECBU Operations
- Aberdeen & Rockfish Operations
- All Interchange Operations
- Cost Benefit Ratios
- Reviewed All Scenarios







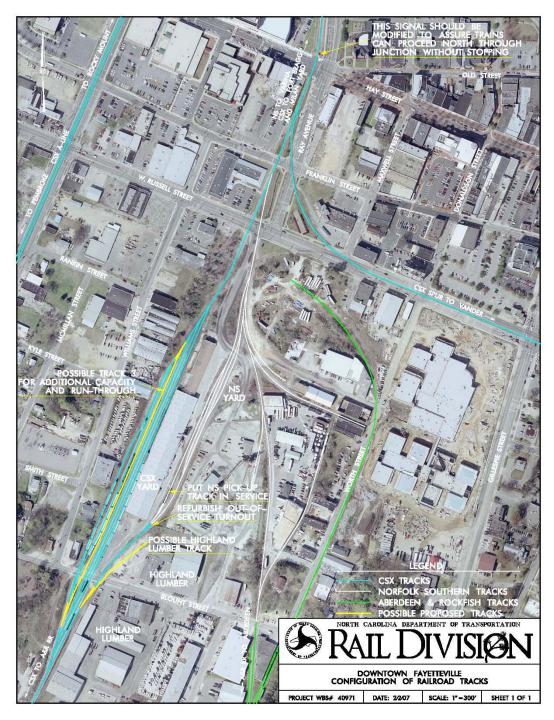
#### **CSX-Ft.** Bragg Connector:

- Turnouts
- Track work
- Grading/drainage
- Signal cost
- Bridge
- 66 Months to complete

\$5,825,000

SPORTATION RAIL DIVISION
FETY BRANCH





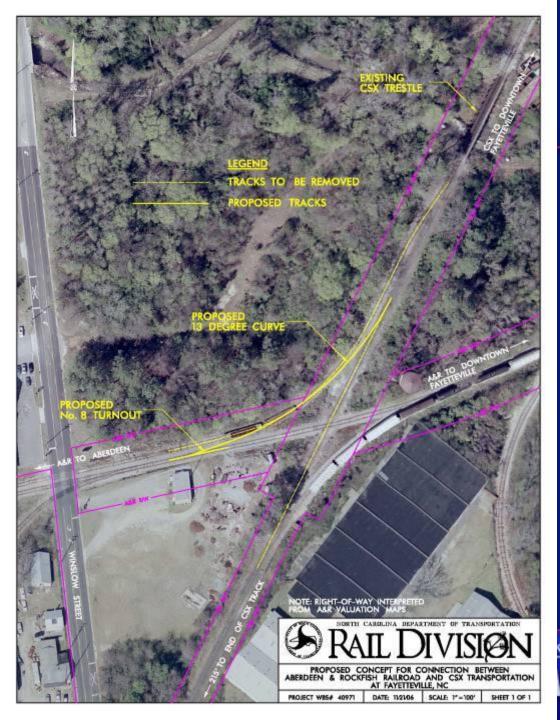
Old Yard Connections & Improvements (24 months to compete)

New Track 3 \$450,000 NS Track/turnout

Total \$450,000

SPORTATION RAIL DIVISION

FETY BRANCH



# A&R-Old Yard Connector

- Connection track
- Track work
- Grading/drainage
- Bridge decking
- 24 month completion time

\$330,000





## Recommendations/Priority

- A & R / Old Yard Connection \$ 330,000
- New Fort Bragg Connection \$5,825,000
- Upgrade CSX/NS Yards \$ 450,000

**TOTAL RECOMMENDED PROJECT \$6,605,000** 





## Fayetteville Next Steps

- Project Agreement With City Complete
- Project Agreement With A&R Complete
- CSX to Provide Preliminary Engineering Agt. – Need by March 2010
- NCDOT to Issue NTP for Ft. Bragg Connector Design – March 2010





## Fayetteville Next Steps

- CSX To Provide Final Project Agreement for Williams Street Yard Connection
- City of Fayetteville Will Request CSX Contribution
- Ft Bragg Connector Construction Begins Fall 2011
- Project Complete Fall 2012
- All is subject to availability of funding, CSX agreements, etc.





NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION





### Elkin

- Yadkin Valley Railroad Shortline Operation
- US-21 Business bridge closure forced alternate route at-grade over YVRR.
- Investigation/negotiation of new siding out of the downtown area and relocating all YVRR switching.
- State-funded local project.











NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION





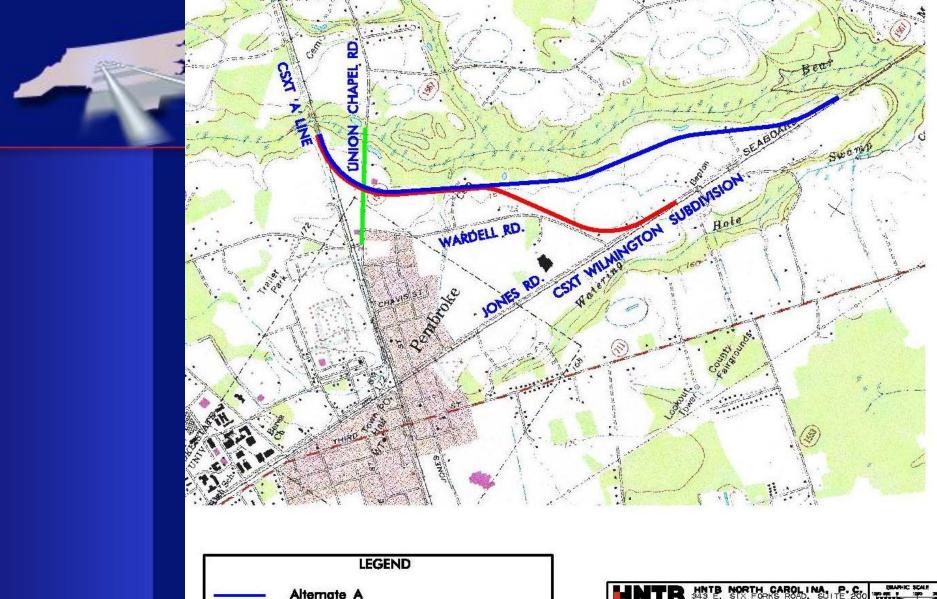


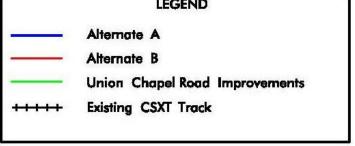


# Elkin Siding/Switching Relocation

- Elkin to purchase right of way and review closure of crossings
- YVRR/NS furnish operating right of way
- NCDOT to fund new yard construction and materials
- Project cost \$900,000









NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

#### PEMBROKE NORTHERN RAIL CONNECTING TRACK **BYPASS**

PEMBROKE, NC

Dec. 19, 2006



### **Pembroke**

- 45 trains per day through Pembroke.
- South/north to east trains must now switch and go through town twice.
- CSX SE and A lines
- Northern Bypass Rail Connecting Track Proposed





# Pembroke Northern Bypass Rail Connecting Track

- Assist freight and future passenger movements - Raleigh, Fayetteville to Wilmington.
- Improved rail access to proposed NC international port.
- Military interest direct connection ft.
   Bragg to MOTSU.



# Pembroke Northern Bypass Rail Connecting Track

- Facilitate north to south shipments to turn east.
- Preliminary cost estimate \$20M:
  - PE \$1.5M
  - R/W \$1.5M
  - Const \$17.0
  - Based on 25% Plans
- Grade separation at Union Chapel Road and relocation of Jones Road.



# Pembroke - Union Chapel Road Grade Separation



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION





# Pembroke - Jones Road Relocation



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION





## Pembroke Next Steps

- Complete Environmental Document Summer 2010
- Final Public Hearing Fall 2010
- Complete Final Design Fall 2012
- Begin Right of Way Acquisition Fall 2011
- Begin Construction Spring 2013
- Construction Complete Fall 2014
- All is subject to availability of funding, CSX agreements, etc.

